

CLAIMS

I claim:

- 5 1. A self-contained trailer braking system comprising:
 - a fifth wheel hitch attached to a trailer frame, where the trailer hitch further comprises a kingpin to engage a fifth wheel of a towing vehicle;
 - a sliding mechanism attached to the kingpin, where the sliding mechanism is slidingly captured within the trailer frame and can move between a forward position and a rear position;
 - 10 a spring attached to the sliding mechanism and the trailer frame, where the spring biases the sliding member to the forward position;
 - a brake actuator mounted to the trailer frame and linked to the sliding mechanism;
 - a brake assembly attached to the brake actuator; and
 - a power supply attached to the brake assembly, where power is applied to the brake
 - 15 assembly when the sliding mechanism is away from the forward position.
2. The self-contained trailer braking system of claim 1, wherein the power supply is an internal combustion engine.
- 20 3. The self-contained trailer braking system of claim 1, wherein the spring is a torsion bar.
4. The self-contained trailer braking system of claim 1, wherein the spring is a coil spring.

5. The self-contained trailer braking system of claim 1, wherein the spring is a pneumatic mechanism.

6. The self-contained trailer braking system of claim 1, wherein the spring is a leaf spring.

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7. The self-contained trailer braking system of claim 1, wherein the sliding mechanism may be immobilized with a lock mechanism.

8. The self-contained trailer braking system of claim 1, wherein the power supply furnishes
10 pneumatic power.

9. The self-contained trailer braking system of claim 1, wherein the power supply furnishes electric power.

15 10. The self-contained trailer braking system of claim 1, wherein the power supply furnishes hydraulic power.

11. The self-contained trailer braking system of claim 1, further comprising:

a damper attached to the sliding mechanism and the trailer frame, where the damper resists

20 rapid movement of the sliding member.

12. A self-contained trailer braking system comprising:

a fifth wheel hitch attached to a trailer frame, where the trailer hitch further comprises a kingpin to engage a fifth wheel of a towing vehicle;

a sliding mechanism attached to the kingpin, where the sliding mechanism is slidingly captured within the trailer frame and can move between a forward position and a rear position;

a coil spring attached to the sliding mechanism and the trailer frame, where the coil spring biases the sliding member to the forward position;

a brake actuator mounted to the trailer frame and linked to the sliding mechanism;

a brake assembly attached to the brake actuator; and

a power generator attached to the brake assembly, wherein the power generator supplies pneumatic energy for the brake assembly, wherein power is applied to the brake assembly when the sliding mechanism is away from the forward position.

13. The self-contained trailer braking system of claim 12, further comprising:

a damper attached to the sliding mechanism and the trailer frame, where the damper resists rapid movement of the sliding member.

14. The self-contained trailer braking system of claim 12, wherein the sliding mechanism may be deactivated with a lock mechanism.

15. A remote operating system for a trailer comprising:

a power supply;

a remote control transmitter;

a remote control receiver;

5 a power distribution system; and

a power equipment.

16. The remote operating system of claim 15, wherein the power supply is a internal combustion engine.

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17. The remote operating system of claim 15, wherein the power supply provides pneumatic power.

18. The remote operating system of claim 15, wherein the power supply provides electric power.

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19. The remote operating system of claim 15, wherein the power equipment is a water distribution system.

20 20. The remote operating system of claim 19, wherein the water distribution system comprises a plurality of valves, a plurality of water spray heads, and a water pump.

21. The remote operating system of claim 20, wherein the plurality of valves and water spray heads are individually controllable with the remote control transmitter.